



FIFTH SEMESTER B.Tech. (PRINTING & MEDIA) DEGREE END SEMESTER

EXAMINATION

NOV 2017

SUBJECT: COMMUNICATION SYSTEM (PMT - 4006)

TIME: 3 HOURS

MAX. MARKS: 50

Instructions to candidates

- Answer **ALL** questions.
- Missing data may be suitably assumed.

- 1A. Explain different types of optical fibres depending on refractive index of the material used.
- 1B. What are the two main types of light sources used in optical communication systems? Which is preferred and why?
- 1C. The optical spectrum is made up of three parts. Briefly explain. (5+3+2)
- 2A. What are the four main elements of a communication system, and draw a diagram that shows their relationship.
- 2B. Explain any three different types of multiplexing used in communication system.
- 2C. Draw neatly Electromagnetic spectrum band width used in electronic communication. (5+3+2)
- 3A. Explain with a neat block diagram, architecture of GSM system and the various entities in it.
- 3B. Explain two principles that are used in cellular communication system.
- 3C. What are the different types of Handover used in Wireless Communication? (5+3+2)
- 4A. What are the subsystems used in a satellite system? Discuss all subsystems.
- 4B. Explain Global Positioning System (GPS) in detail.
- 4C. Explain three different types of satellites. (5+3+2)
- 5A. What are the different types of dispersion in an Optical Fibre cable ? Explain.
- 5B. Explain different types of attenuation in an Optical Fibre cables.
- 5C. What is a Modem? Explain. (5+3+2)

